

Addendum Cover Page

Proposal Descr:	CASCADE POINT FERRY TERMINAL STAGE 1 DESIGN BUILD		
Program Number:	HSHWY00015	Addendum No.:	01
Federal Number:		Date Issued:	May 27, 2025
Letting Date/Time:	06/13/2025 2:00 PM	Number of Pages:	54
Previous Addenda Issued:	None	Issuing Officer:	Christopher Goins, P.E., C.M. - Southcoast Regional Director
		Email:	srdotpfcontracts@alaska.gov
		Address:	Department of Transportation & Public Facilities 6860 Glacier Highway Juneau, AK, 99801

Bidders are required to acknowledge receipt of this addendum prior to the hour and date set for the bid letting by one of the following methods:

- (a) By acknowledging receipt of this addendum on the bid submitted.
- (b) By fax or email, listed above, which includes a reference to the project and addendum number.

The bid documents require acknowledgement individually of all addenda to the drawings and/or specifications. This is a mandatory requirement and any bid received without acknowledgement of receipt of addenda may be classified as not being a responsive bid. If, by virtue of this addendum it is desired to modify a bid already submitted, such modification may be made by fax or email, provided such a fax or email, makes reference to this addendum and is received prior to the opening hour and date specified above. In the event of a bid delay, bidders submitting an electronic bid that have already submitted their bid prior to the bid delay must resubmit their bid utilizing all Bid Forms EBSX Files or their bid will not be received.

Addendum

DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHCOST REGION CONTRACTS SECTION
6860 GLACIER HIGHWAY
JUNEAU, ALASKA 99801-7999
TELEPHONE: (907) 465-4420
FAX: (907) 465-4238

TO ALL PROSPECTIVE BIDDERS AND OTHERS INTERESTED IN PROJECT NO.
HSHWY00015; Cascade Point Ferry Terminal Stage 1 Design Build

ADDENDUM NO. 1

May 27, 2025

This transmittal consists of Fifty-four (54) pages including this cover sheet. **If any pages are missing or clarification is needed, contact the Southcoast Regional Contracts Office immediately.**

The Contract Documents are modified as follows:

Appendix 3-1. Is provided by this addendum per RFP Part I, Special Notice to Proposers item 3.

You can download this addendum from the following website:

<https://www.bidx.com/ak/main>

Bidders are required to acknowledge this addendum on the proposal form or by FAX prior to the bid opening.

Addendum Number One (1) received.
HSHWY00015; Cascade Point Ferry Terminal Stage 1 Design Build

Name/Title

Date

Firm

MEMORANDUM

PROJECT NO. HSHWY00015 (PND #232045)

DATE: 05/23/2025

PROJECT: JNU Cascade Point Ferry Terminal

TO: Christopher Goins, PE (Alaska DOT&PF)

CC: Misty Butler, PE (Alaska DOT&PF)
Dick Somerville, PE (PND Engineers, Inc.)
Mark Sams, PE (PND)

FROM: Sean Sjostedt, PE (PND)

SUBJECT: Geotechnical Investigation – Uplands Preliminary Geotechnical Data Report

PND Engineers, Inc. (PND) has completed several phases of field geotechnical investigation supporting the subject project. The investigation consisted of excavated test pits and drilled boreholes in the areas of planned upland improvements, including the access road, Cascade Creek bridge, parking/staging area, and expanded quarry. Offshore/marine investigations were also performed, the results of which are still under preliminary development and are not included in this document. The investigations were completed in 2024.

This preliminary document presents the data collected and laboratory test results finalized to date that are relevant to uplands improvements. A complete Geotechnical Data Report and Geotechnical Design Report will be provided when ready, at a later date.

Attachments: Upland Geotechnical Investigation Plan
Preliminary Borehole and Test Pit Logs
Preliminary Laboratory Test Results



STATE OF ALASKA DOT&PF

Central Region Materials

Geology Section

LOG OF TEST HOLE

HOLE # LEGEND

PROJECT NUMBER : TH/TP Year - Sequential Number

PROJECT : TEST HOLE EXPLANATION

NORTHING : 1000, EASTING : 2000

Station / Location: Hole Location, Station or Coordinates

Offset: Offset Location if applicable

Elevation: Elevation

Equipment Type:

Drilling Method: Drilling Method

Field Crew: Driller, Helper

Total Depth: 19.0 feet

Date: 1/18/2005 -

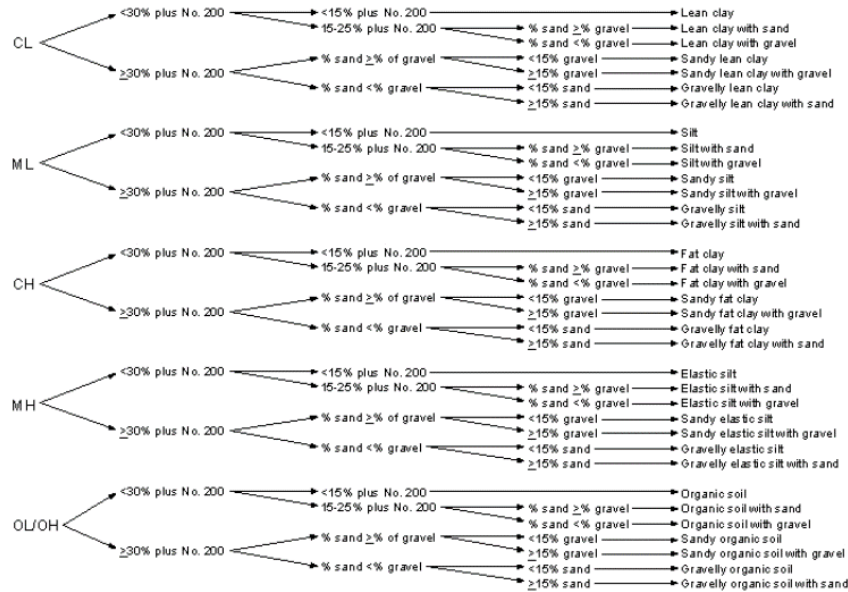
Geologist: Geologist

Depth (Feet)	Sample Data					USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: This section is for weather notes
	Sample Type	Number	Blow Count	Sample Recovery	N-Value				Depth in (ft.)		
0									15	15.5	
1									10:00	15:05	
2									1/1/04	1/2/04	
3									Symbol	▼	▽
4									SUBSURFACE MATERIAL		
5									SOIL GRAPHIC AND SOIL TYPE EXPLANATION All graphics are generic representations of soil type and do not match soils as seen in-situ. Graphics are combined for different classifications		0.0
6									GRAVEL (GP)		0.5
7									GRAVEL (GW)		1.0
8									SAND (SP)		1.5
9									SAND (SW)		2.0
10									SILT (ML)		2.5
11									SILT (MH)		3.0
12									CLAY (CL)		3.5
13									CLAY (CH)		4.0
14									Peat (PT) fibric (f), hemic (h), or sapric (s)		4.5
15									ORGANICS (OL)		5.0
16									TRANSITIONAL SOIL CHANGE		5.5
17									ICE or Frozen Soil Interval		6.0
18									Cobble or Boulder Location		6.5
19									BEDROCK		7.0
20									SAMPLE DATA EXPLANATION Standard Penetration Test Split Spoon Sample 1.4" ID x 2" OD with Uncorrected N-Value		7.5
21									Split Spoon Sample 2.0" ID x 2.5" OD		
22									Split Spoon Sample 2.5" ID x 3" OD		
23									Grab Sample		
24									Auger Cuttings Grab Sample		
25									Excavator Bucket Grab Sample		
26									Rock Core		
27									Shelby Tube thin wall 3" OD		
28									Modified Shelby Tube (size)		
29									No Recovery		
30									Sample Not Tested or Retained		
31									Field Weighted Sample		
32									Undisturbed Sample		
33									Vane Shear Test: Vane Radius =X", Vane Height = X", Vane Shear Undisturbed Torque=X, Vane Shear Remoulded Torque=X		
34									Groundwater level while drilling		15.0
35									Groundwater level after drilling		15.5
36									LABORATORY TEST RESULTS EXPLANATION		16.0
37									1234 p200=(passing the #200 sieve)%, Sa=(retained between #200 - #4 sieve)%, Gr=(retained between #4 - 3" sieve)%, +3"=(retained between 3" -12" sieve)%, +12"=(>12" sieve)%, Moisture=(raw)%, Org=(organic content)%, PI=(Plastic Index, NP=nonplastic), LL=(Liquid Limit, NV=No Value), Degradation=#, LA Abrasion=#%, Max. Dry Dens=#pcf, Opt. Moisture=#%, Sodium Sulfate Soundness (coarse)=#%, Sodium Sulfate Soundness (fine)=#%, p0.0075μ=(from hydrometer smaller than 0.0075μ)%		
38									Notes:		19.0
39									This section is for drilling notes and additional equipment descriptions		

A USCS LOG OF TEST HOLE FEB 13 2007 LOG LEGEND.GPJ 2006DATATEMPLATE.GDT 2/13/07

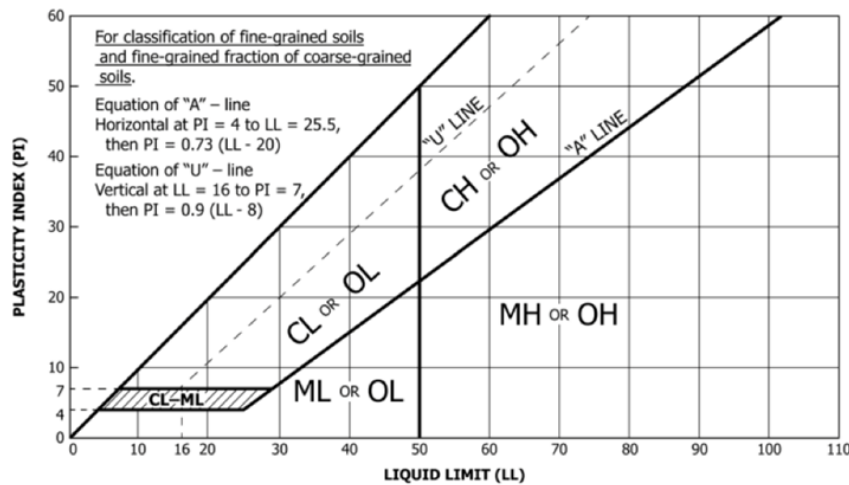
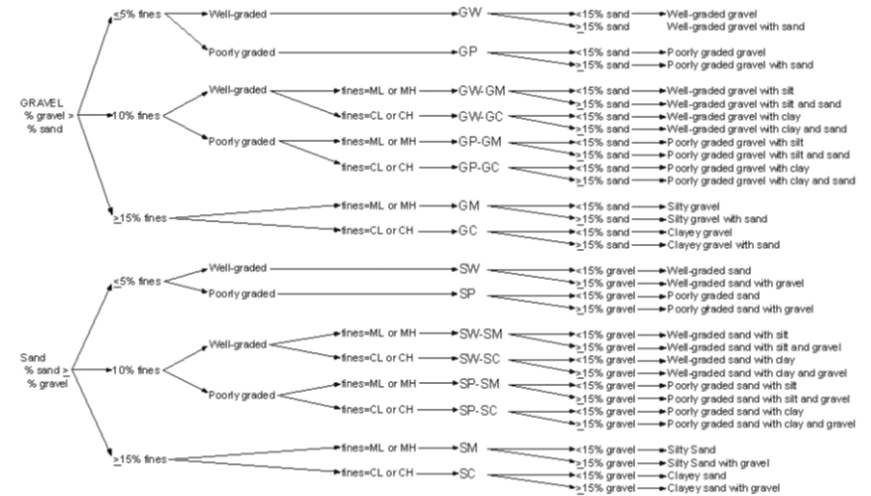
GROUP SYMBOL

GROUP NAME



GROUP SYMBOL

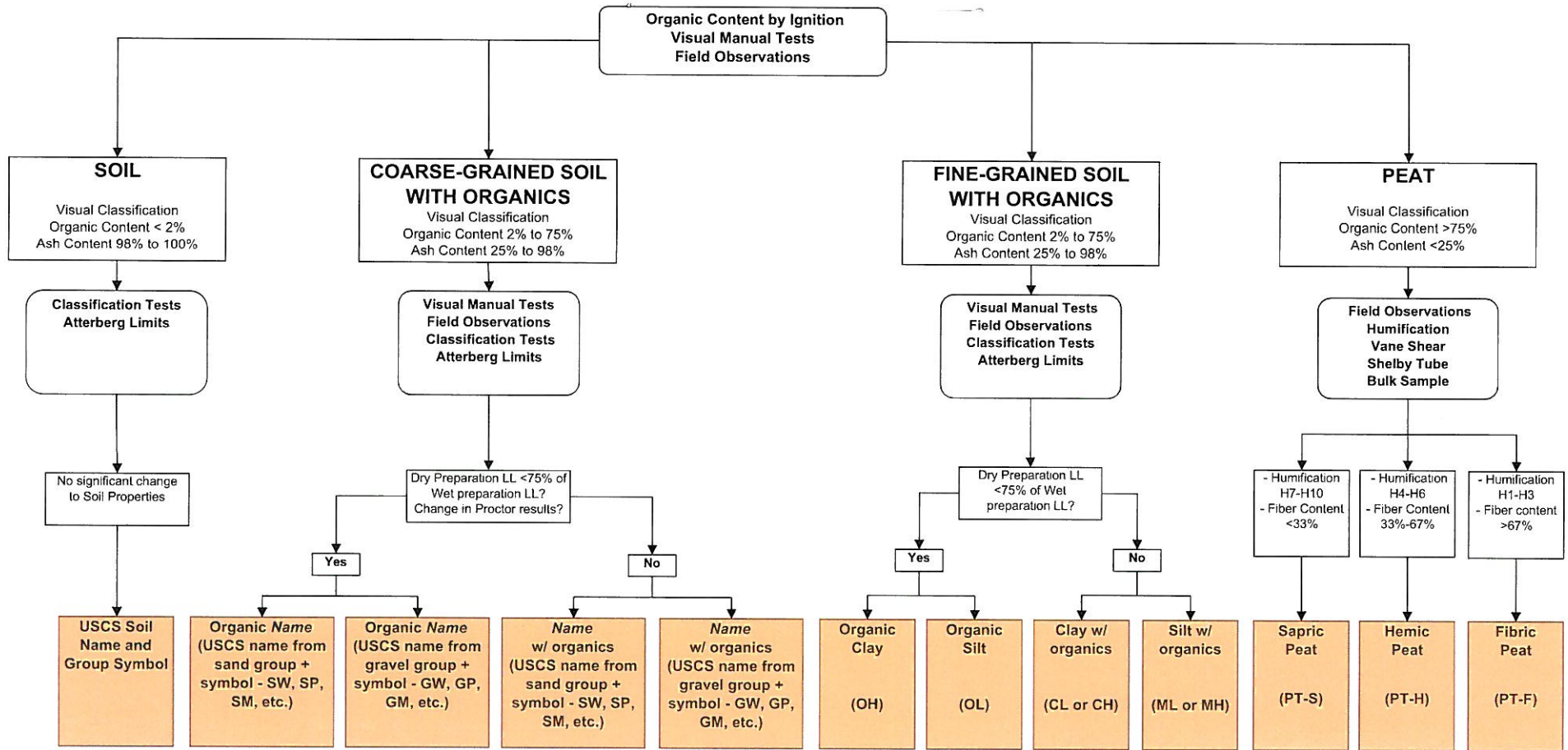
GROUP NAME



Laboratory Classification of Soils for Engineering Purposes

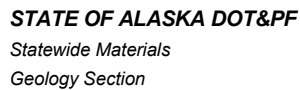
Unified Soils Classification System: ASTM Method D2488

Peat and Organic Soil Classification System



Use appropriate USCS group name and group symbol and add prefix "Organic" or suffix "W/ Organics"

INCREASING ORGANIC CONTENT →



HOLE # SJNU24-TH021

PROJECT: Juneau Cascade Point Ferry Terminal

Equipment Type:
Hole Type: *HWT*
Field Crew: *Discovery Drilling*

Total Depth: 16.5 ft
Date: 10/5/24 - 10/6/24
Geologist: P. Dzwonowski

re=19%



STATE OF ALASKA DOT&PF
Statewide Materials
Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TH022

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 38+99

Offset: 12.7 RT

Elevation: 44.1 ft

Equipment Type:

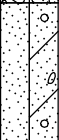
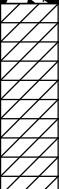
Hole Type: HWT

Field Crew: Discovery Drilling

Total Depth: 17.0 ft

Date: 10/6/24 - 10/6/24

Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Raining; Windy; 45 degrees Surface: Shot Rock road prism	
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)		
											Time		
											Date		
											Symbol		
SUBSURFACE MATERIAL													
0	HWT CASING ADVANCER	6					GP-GM		POORLY-GRADED GRAVEL with Silt and Sand (GP-GM) S1 Moisture=9%		0.0		
1		6	X	S1		MPT							
		12											
2		4											
3		4					SP-SM		POORLY-GRADED SAND with Silt and Gravel (SP-SM) S2 p200=10.4%, Sa=50.6%, Gr=39%, Moisture=24%		2.5		
4		4	X	S2		MPT							
		2											
5		4											
							GW		WELL-GRADED GRAVEL with Sand (GW) S3 Moisture=7%		4.5		
6		2											
7		2	X	S3		MPT							
		4											
8		1											
							CL-ML		CLAY / SILT (CL-ML) S4 p200=55.9%, Sa=31.4%, Gr=12.7%, Moisture=15%, LL=22		7.5		
9		2	X	S4		MPT							
		5											
10	6												
11	4	X	S5		MPT			S5 Moisture=13%					
	8												
12	6												
13													
14													
15													
16	5							S6 Moisture=14%					
	5	X	S6		MPT								
17	10												
	18												
17							BOH 17			17.0			

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S GPJ DATA TEMPLATE 2018.GDT 5/23/25

☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 1 of 1



STATE OF ALASKA DOT&PF
Statewide Materials
Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TH023

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 38+01
Offset: 60.5 LT
Elevation: 52.3 ft

Equipment Type:
Hole Type: HWT
Field Crew: Discovery Drilling

Total Depth: 11.5 ft
Date: 10/7/24 - 10/7/24
Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Raining; Windy; 48 degrees Surface: Shot Rock road prism			
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
SUBSURFACE MATERIAL															
0	HWT CASING ADVANCER	4					GW-GM		WELL-GRADED GRAVEL with Silt and Sand (GW-GM) Angular Shot Rock Fragments S1 p200=5.2%, Sa=24.8%, Gr=70%, Moisture=3%			0.0			
1		5	X	S1		MPT									
		4													
2		6													
		2													
3		1	X	S2		MPT			S2 Moisture=4%						
4		1													
		2													
5		1													
6		2	X	S3		MPT			S3 Moisture=29%						
		5													
7		6													
8		3								S4 Moisture=9%					
		4	X	S4		MPT									
9		3													
		4													
10		4													
11		5	X	S5		MPT			S5 Moisture=3%						
		9													
	25/0"						BOH 11.5	Notes: REFUSAL			11.5				

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 1 of 1



STATE OF ALASKA DOT&PF
Statewide Materials
Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TH024

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 31+05

Offset: 126 LT

Elevation: 92.8 ft

Equipment Type:

Hole Type: ODEX

Field Crew: Discovery Drilling

Total Depth: 17.0 ft

Date: 10/8/24 - 10/8/24

Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Intermittent Sprinkles; 45 degrees Surface: Shot Rock road prism		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)			
											Time			
											Date			
											Symbol			
SUBSURFACE MATERIAL														
0	Air Percussion	6						GP-GM		POORLY-GRADED GRAVEL with Silt and Sand (GP-GM) Angular Shot Rock Fragments 1 Moisture=2%		0.0		
1		7	X	1		MPT								
2		8												
3		11												
4		7	X	2		MPT								
5		8												
6		4												
7		3												
8		7	X	3		MPT								
9		3												
10		7												
11		4												
12		4	X	4A		MPT		SP-SM		POORLY-GRADED SAND with Silt and Gravel (SP-SM) 4A p200=5.7%, Sa=94.3%, Gr=0%, Moisture=36%		7.0		
13		4												
14		6	X	4B		MPT								
15		3												
16		4												
17		4	X	5		MPT								
18		6												
19		3												
20										WELL-GRADED SAND with Gravel (SW) 6 p200=4.5%, Sa=77.9%, Gr=17.5%, Moisture=16%		13.0		
21														
22														
23														
24														
25														
26	0							BOH 17			17.0			
27	0	X	6		MPT									
28	1													
29	1													

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 1 of 1



STATE OF ALASKA DOT&PF
Statewide Materials
Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TH025

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 27+78

Offset: 0.9 RT

Elevation: 118.8 ft

Equipment Type:

Hole Type: ODEX

Field Crew: Discovery Drilling

Total Depth: 17.0 ft

Date: 10/8/24 - 10/8/24

Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Increasing steady rain; 45 degrees Surface: Shot Rock road prism		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)			
											Time			
											Date			
											Symbol			
SUBSURFACE MATERIAL														
0	Air Percussion									GRAVEL Angular Shot Rock Fragments	0.0			
1														
2														
3		0	X	2			MPT			2 Moisture=80%				
4		0												
5		2												
6		3	X	3A			MPT			3A Moisture=26%				
7		2												
8		2												
9		3	X	3B			MPT	SM		SILTY SAND (SM) 3B p200=22.1%, Sa=74%, Gr=3.9%, Moisture=19%	6.0			
10		2												
11		4												
12		3	X	4			MPT			4 Moisture=15%				
13		2												
14		3												
15		2	X	5			MPT			5 p200=13.4%, Sa=62.1%, Gr=24.4%, Moisture=15%				
16		1												
17	0													
18	1	X	6A			MPT			6A Moisture=13%					
19	1													
20	1													
21		X	6B			MPT	ML		GRAVELLY SILT with Sand (ML) 6B Moisture=11%	16.0				
22														
23	8													
24										17.0				



STATE OF ALASKA DOT&PF
Statewide Materials
Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TH026

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 25+78

Offset: 3.6 RT

Elevation: 129.3 ft

Equipment Type:

Hole Type: ODEX

Field Crew: Discovery Drilling

Total Depth: 5.0 ft

Date: 10/8/24 - 10/8/24

Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Steady rain; 45 degrees Surface: Drainage ditch	
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)		
											Time		
											Date		
											Symbol		
SUBSURFACE MATERIAL													
0											GRAVEL Angular Shot Rock Fragments	0.0	
1													
2													
3	Air Percussion												
4													
5		25/0"	X	SI		MPT			BOH 5		Notes: REFUSAL	5.0	



STATE OF ALASKA DOT&PF
Statewide Materials
Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TH028

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 21+73

Offset: 33.4 LT

Elevation: 138.5 ft

Equipment Type:

Hole Type: ODEX

Field Crew: Discovery Drilling

Total Depth: 7.0 ft

Date: 10/9/24 - 10/9/24

Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Rain; 45 degrees Surface: Shot Rock road prism
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Depth (ft.)		
										Time		
										Date		
										Symbol		
SUBSURFACE MATERIAL												
0	Air Percussion	8					GM			POORLY-GRADED GRAVEL with Silt and Sand Angular Shot Rock Fragments		0.0
1		3	X	S1		MPT						
2		4										
3		5										
4		0	X	S2		MPT						
5		25/0"								S2 Moisture=25%		
6												
7			X	S4		MPT						
		25/0"							BOH 7	Notes: REFUSAL		7.0

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 1 of 1



HOLE # SJNU24-TH029

PROJECT : Juneau Cascade Point Ferry Terminal

Equipment Type:
Hole Type: *ODEX*
Field Crew: *Discovery Drilling*

Total Depth: 0.5 ft
Date: 10/9/24 - 10/9/24
Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Rain; 45 degrees Surface: Shot Rock road prism	SUBSURFACE MATERIAL	0.0 0.5
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample				
0	Air Percussion	22	X	S1		MPT	✕			GRAVEL Angular Shot Rock Fragments				
	25/0"							BOH 0.5	Notes: REFUSAL					

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH"S.GPJ DATA TEMPLATE 2018.GDT 5/23/25



STATE OF ALASKA DOT&PF
Statewide Materials
Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TH030

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 19+39
Offset: 0.7 LT
Elevation: 162.7 ft

Equipment Type:
Hole Type: HWT/HQ
Field Crew: Discovery Drilling

Total Depth: 43.8 ft
Date: 10/10/24 - 10/11/24
Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Rain; 45 degrees	
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)		Surface: Bedrock knob
											Time		
											Date		
											Symbol		
SUBSURFACE MATERIAL													
0	HWT								WEATHERED BEDROCK broken, weathered bedrock Knob			0.0	
1													
2													
3													
4													
5													
6													
7	Wireline Coring			CR1		CORE			BEDROCK-Volcanic Core Run 1 (7.0'-7.7'); REC=1.3'; RQD=0% Core Run 2 (7.7'-9.2'); REC=1.3'; RQD=0%			7.0 7.1 7.7	
8				CR2		CORE							
9												9.2	
10													
11													
12				CR3		CORE							
13													
14												14.2	
15													
16													
17				CR4		CORE							
18													
19												19.2	
20													

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 1 of 3



STATE OF ALASKA DOT&PF
Statewide Materials
Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TH030

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 19+39

Offset: 0.7 LT

Elevation: 162.7 ft

Equipment Type:

Hole Type: HWT/HQ

Field Crew: Discovery Drilling

Total Depth: 43.8 ft

Date: 10/10/24 - 10/11/24

Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Rain; 45 degrees		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)			Surface: Bedrock knob
											Time			
											Date			
											Symbol			
SUBSURFACE MATERIAL														
20	Wireline Coring									BEDROCK-Volcanic (continued)				
21														
22				CR5			CORE							
23														
24														
25											Core Run 6 (24.2'-29.2'); REC=5.0'; RQD=20%		24.2	
26														
27				CR6			CORE							
28														
29														
30											Core Run 7 (29.2'-34.2'); REC=4.8'; RQD=36%		29.2	
31														
32				CR7			CORE							
33														
34														
35											Core Run 8 (34.2-39.2'); REC=5.0'; RQD=28%		34.2	
36														
37				CR8			CORE							
38														
39														
40										Core Run 9 (39.2'-43.8'); REC=4.5'; RQD=60%		39.2		

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S.GPJ DATA TEMPLATE 2018.GDT 5/23/25

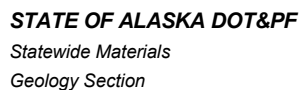
☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 2 of 3



HOLE # SJNU24-TH030

PROJECT : Juneau Cascade Point Ferry Terminal

Elevation: 162.7 ft

Field Crew: *Discovery Drilling*

Geologist: *P. Dzwonowski*

Draft



STATE OF ALASKA DOT&PF
Statewide Materials
Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TH031

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 19+39
Offset: 20.7 LT
Elevation: 162.5 ft

Equipment Type:
Hole Type: HWT/HQ
Field Crew: Discovery Drilling

Total Depth: 38.0 ft
Date: 10/11/24 - 10/12/24
Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Overcast/Intermittent Sprinkles				
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)		Time	Date	Symbol	Surface: Shot Rock road prism
SUBSURFACE MATERIAL																
0	HWT								GRAVEL Angular Shot Rock Fragments w/ localized organics				0.0			
1																
2																
3																
4																
5																
6	Wireline Coring								BEDROCK - Volcanic				6.0			
7				CR1		CORE			Core Run 1 (6.0'-8.0'); REC=1.0'; RQD=0%			6.6				
8									Core Run 2 (8.0'-10.5'); REC=2.5'; RQD=0%			8.0				
9				CR2		CORE										
10									Core Run 3 (10.5'-13.0'); REC=2.0'; RQD=32%			10.5				
11																
12				CR3		CORE										
13									Core Run 4 (13.0'-17.0'); REC=4.0'; RQD=20%			13.0				
14																
15				CR4		CORE										
16																
17									Core Run 5 (17.0'-18.0'); REC=0.8'; RQD=0%			17.0				
18				CR5		CORE			Core Run 6 (18.0'-23.0'); REC=5.0'; RQD=24%			18.0				
19																
20																

A USCS LOG OF TEST HOLE 232045 JUN CPFT UPLANDS SJNU-TH'S.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 1 of 2



STATE OF ALASKA DOT&PF
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LOG OF TEST HOLE

HOLE # SJNU24-TH031

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 19+39
Offset: 20.7 LT
Elevation: 162.5 ft

Equipment Type:
Hole Type: HWT/HQ
Field Crew: Discovery Drilling

Total Depth: 38.0 ft
Date: 10/11/24 - 10/12/24
Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Overcast/Intermittent Sprinkles		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)			Surface: Shot Rock road prism
											Time			
											Date			
											Symbol			
SUBSURFACE MATERIAL														
20	Wireline Coring			CR6		CORE			BEDROCK - Volcanic (continued)					
21														
22														
23									Core Run 7 (23.0'-28.0'); REC=5.0'; RQD=48%		23.0			
24														
25														
26					CR7		CORE							
27														
28									Core Run 8 (28.0'-33.0'); REC=5.0'; RQD=56%		28.0			
29														
30														
31					CR8		CORE							
32														
33									Core Run 9 (33.0'-10.5'); REC=4.8'; RQD=40%		33.0			
34														
35														
36					CR9		CORE							
37														
38														
								BOH 38				38.0		

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S.GPJ DATA TEMPLATE 2018.GDT 5/23/25

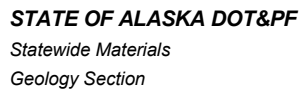
☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 2 of 2



HOLE # SJNU24-TH032

PROJECT: Juneau Cascade Point Ferry Terminal

Equipment Type:
Hole Type: *ODEX*
Field Crew: *Discovery Drilling*

Total Depth: 4.0 ft
Date: 10/9/24 - 10/9/24
Geologist: P. Dzwonowski

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LOG OF TEST HOLE

HOLE # SJNU24-TH033

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 18+83
Offset: 0.5 LT
Elevation: 164.9 ft

Equipment Type:
Hole Type: HWT/HQ
Field Crew: Discovery Drilling

Total Depth: 34.0 ft
Date: 10/14/24 - 10/14/24
Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Overcast/Intermittent Sprinkles	
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)		Surface: Drainage ditch
											Time		
											Date		
											Symbol		
SUBSURFACE MATERIAL													
0	HWT								GRAVEL Angular Shot Rock Fragments w/ localized organics			0.0	
1													
2													
3													
4	Wireline Coring								BEDROCK - Volcanic			4.5	
5									Core Run 1 (4.5'-6.5'); REC=1.25'; RQD=20%			4.6	
6													
7									Core Run 2 (6.5'-10.0'); REC=3.0'; RQD=10%			6.5	
8													
9													
10									Core Run 3 (10.0'-13.0'); REC=3.0'; RQD=0%			10.0	
11													
12													
13									Core Run 4 (13.0'-15.0'); REC=1.7'; RQD=0%			13.0	
14													
15									Core Run 5 (15.0'-19.0'); REC=4.0'; RQD=22%			15.0	
16													
17													
18													
19									Core Run 6 (19.0'-20.0'); REC=1.0'; RQD=100%			19.0	
20													

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 1 of 2



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LOG OF TEST HOLE

HOLE # SJNU24-TH033

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 18+83

Offset: 0.5 LT

Elevation: 164.9 ft

Equipment Type:

Hole Type: HWT/HQ

Field Crew: Discovery Drilling

Total Depth: 34.0 ft

Date: 10/14/24 - 10/14/24

Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Overcast/Intermittent Sprinkles Surface: Drainage ditch	
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)		
											Time		
											Date		
											Symbol		
SUBSURFACE MATERIAL													
20	Wireline Coring								BEDROCK - Volcanic <i>(continued)</i> Core Run 7 (20.0'-25.0'); REC=5.0'; RQD=86%		20.0		
21													
22													
23				CR7		CORE							
24													
25										Core Run 8 (25.0'-30.0'); REC=5.0'; RQD=72%	25.0		
26													
27													
28				CR8		CORE							
29													
30										Core Run 9 (30.0'-34.0'); REC=4.0'; RQD=62%	30.0		
31													
32				CR9		CORE							
33													
34										BOH 34		34.0	

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S GPJ DATA TEMPLATE 2018.GDT 5/23/25

☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 2 of 2



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Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TH034

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 18+82
Offset: 19.5 LT
Elevation: 163.6 ft

Equipment Type:
Hole Type: HWT/HQ
Field Crew: Discovery Drilling

Total Depth: 48.0 ft
Date: 10/15/24 - 10/15/24
Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Overcast Surface: Shot Rock road prism			
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
SUBSURFACE MATERIAL															
0	HWT	Angular Shot Rock Fragments w/ localized organics silt, and sand											0.0		
1															
2															
3															
4															
5															
6															
7															
8															
9															
10	Wireline Coring	BEDROCK - Volcanic											10.0		
11		Core Run 1 (10.0'-13.0'); REC=2.0'; RQD=0%											10.5		
12															
13		Core Run 2 (13.0'-18.0'); REC=5.0'; RQD=24%											13.0		
14															
15															
16															
17															
18		Core Run 3 (18.0'-22.0'); REC=4'; RQD=42%											18.0		
19															
20															

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

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LOG OF TEST HOLE

HOLE # SJNU24-TH034

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 18+82
Offset: 19.5 LT
Elevation: 163.6 ft

Equipment Type:
Hole Type: HWT/HQ
Field Crew: Discovery Drilling

Total Depth: 48.0 ft
Date: 10/15/24 - 10/15/24
Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Overcast		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)			Surface: Shot Rock road prism
SUBSURFACE MATERIAL														
20	Wireline Coring			CR3		CORE			BEDROCK - Volcanic (continued)					
21														
22				CR4		CORE			Core Run 4 (22.0'-23.0'); REC=1'; RQD=60%				22.0	
23									Core Run 5 (23.0'-28.0'); REC=5'; RQD=60%				23.0	
24														
25														
26				CR5		CORE								
27														
28									Core Run 6 (28.0'-33.0'); REC=5'; RQD=30%				28.0	
29														
30	Wireline Coring			CR6		CORE								
31														
32														
33									Core Run 7 (33.0'-38.0'); REC=5'; RQD=28%				33.0	
34														
35														
36				CR7		CORE								
37														
38									Core Run 8 (38.0'-43.0'); REC=5'; RQD=48%				38.0	
39														
40														

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S GPJ DATA TEMPLATE 2018.GDT 5/23/25

☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 2 of 3



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LOG OF TEST HOLE

HOLE # SJNU24-TH034

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 18+82

Offset: 19.5 LT

Elevation: 163.6 ft

Equipment Type:

Hole Type: HWT/HQ

Field Crew: Discovery Drilling

Total Depth: 48.0 ft

Date: 10/15/24 - 10/15/24

Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Overcast Surface: Shot Rock road prism			
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
SUBSURFACE MATERIAL															
40	Wireline Coring			CR8		CORE			BEDROCK - Volcanic (continued)			43.0			
41															
42															
43									Core Run 9 (43.0'-48.0'); REC=5'; RQD=40%						
44															
45															
46				CR9		CORE									
47															
48								BOH 48				48.0			
		</													

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 3 of 3



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LOG OF TEST HOLE

HOLE # SJNU24-TH035

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 16+90
Offset: 3.2 LT
Elevation: 169.4 ft

Equipment Type:
Hole Type: ODEX
Field Crew: Discovery Drilling

Total Depth: 4.0 ft
Date: 10/10/24 - 10/10/24
Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data			Weather: Overcast/Light Sprinkles Surface: Drainage ditch	
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)			
											Time			
											Date			
											Symbol			
SUBSURFACE MATERIAL														
0											GRAVEL Angular Shot Rock Fragments	0.0		
1														
2														
3														
4		25/0"	X	S1		MPT			BOH 4		Notes: REFUSAL	4.0		



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LOG OF TEST HOLE

HOLE # SJNU24-TH036

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 14+92

Offset: 0.7 RT

Elevation: 198.8 ft

Equipment Type:

Hole Type: ODEX

Field Crew: Discovery Drilling

Total Depth: 7.5 ft

Date: 10/10/24 - 10/10/24

Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Steady Rain; 45 degrees Surface: Shot Rock road prism			
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
SUBSURFACE MATERIAL															
0	Air Percussion	7						PT		POORLY-GRADED GRAVEL Angular Shot Rock Fragments S1 p200=3.6%, Sa=15.5%, Gr=80.9%, Moisture=4%		0.0			
1		6	X	S1		MPT									
2		8													
3		9													
4		6									S2 Moisture=8%				
5		3	X	S2		MPT									
6		1													
7		0													
8		1									ORGANICS (PT) Organics include wood debris S3 Moisture=82%		5.0		
9		0	X	S3		MPT									
10		0										7.5			
11		0													
12		25/0"	X	S4		MPT			BOH 7.5	Notes: REFUSAL					

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 1 of 1



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LOG OF TEST HOLE

HOLE # SJNU24-TH037

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 38+39

Offset: 185.6 LT

Elevation: 54.4 ft

Equipment Type:

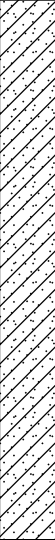
Hole Type: HWT

Field Crew: Discovery Drilling

Total Depth: 13.0 ft

Date: 10/16/24 - 10/16/24

Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Clearing skies; 48 degrees Surface: Wooded muskeg			
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
SUBSURFACE MATERIAL															
0	HWT CASING ADVANCER						PT		Peat (PT)				0.0		
1							SP		SAND (SP)				1.5		
2															
3															
4															
5							ML		SILT with Sand (ML)				5.5		
6															
7				S1		ST									
8															
9									Notes: REFUSAL This TH was added at the drilling project's end w/ intention to solely probe for bedrock elevation				13.0		
10															
11															
12															
13		25/0"	X	S2		MPT		BOH 13							

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 1 of 1



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LOG OF TEST HOLE

HOLE # SJNU24-TH038

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 38+96

Offset: 188.8 LT

Elevation: 47.9 ft

Equipment Type:

Hole Type: HWT

Field Crew: Discovery Drilling

Total Depth: 14.0 ft

Date: 10/16/24 - 10/16/24

Geologist: P. Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data		Weather: Clearing skies; 48 degrees Surface: Shot rock pad
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Depth (ft.)		
										Time		
										Date		
										Symbol		
0	HWT CASING ADVANCER									SUBSURFACE MATERIAL		
1										GRAVEL Angular Shot Rock Fragments		0.0
2												
3												
4							SP			SAND (SP)		4.0
5												
6												
7												
8							ML			SILT with Sand (ML)		7.5
9												
10												
11												
12												
13												
14		25/0"	X	S1		MPT			BOH 14	Notes: REFUSAL; No soil sampling was performed. This TH was added at the drilling project's end w/ intention to solely probe for bedrock elevation		14.0

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS SJNU-TH'S.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☒ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☒ 340 lb hammer with 30 in. drop

Sheet Number 1 of 1



HOLE # SJNU24-TP004

PROJECT: Juneau Cascade Point Ferry Terminal

Geologist: *P.Dzwonowski*

[illegible]

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS TP.GPJ DATA TEMPLATE 2018.GDT 5/23/25



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LOG OF TEST HOLE

HOLE # SJNU24-TP005

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 39+55

Offset: 232.5 RT

Elevation: 58.2 ft

Equipment Type: CAT 320E Excavator

Hole Type: Test Pit

Field Crew: ENCO Alaska

Total Depth: 1.5 ft

Date:

Geologist: P.Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
0							PT		Peat (PT) dark brown, spongy			0.0			
1									Notes: Bucket teeth scraping at bottom - REFUSAL - Bedrock - Volcanic			1.5			
								BOH 1.5							

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Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TP006

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 37+96

Offset: 92.8 RT

Elevation: 60.5 ft

Equipment Type: CAT 320E Excavator

Hole Type: Test Pit

Field Crew: ENCO Alaska

Total Depth: 11.0 ft

Date:

Geologist: P.Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data				
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)			
											Time			
											Date			
											Symbol			
SUBSURFACE MATERIAL														
0									"PIT RUN SHOT ROCK" grayish green, angular, platy-shaped rock fragments to 3ft. with subordinate silt, sand and gravel and occasional tree branches	0.0				
1														
2														
3														
4														
5														
6							PT		Peat (PT) dark brown, spongy	6.0				
7														
8							ML		SANDY SILT with Gravel (ML) bluish gray, subrounded coarse gravels with cobbles and occasional boulder supported in a fine grained silt and sand matrix; compact	8.0				
9														
10														
11														
								BOH 11	Notes: Bucket teeth scraping at bottom - REFUSAL - Bedrock - Volcanic	11.0				

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS TP.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☐ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☐ 340 lb hammer with 30 in. drop

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LOG OF TEST HOLE

HOLE # SJNU24-TP007

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 37+89
Offset: 207.9 RT
Elevation: 73.3 ft

Equipment Type: CAT 320E Excavator
Hole Type: Test Pit
Field Crew: ENCO Alaska

Total Depth: 8.0 ft
Date:
Geologist: P.Dzwonowski

Depth (Feet)	Sample Data						USCS Classification Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type			Sample	Depth (ft.)				
										Time				
										Date				
										Symbol				
0								"PIT RUN SHOT ROCK" grayish green, angular, platy-shaped rock fragments to 3ft. with subordinate silt, sand and gravel and occasional wood debris including tree branches			0.0			
1														
2														
3														
4							PT	ORGANICS (PT) dark brown, spongy			6.0			
5														
6														
7														
8							BOH 8	Notes: Bucket teeth scraping at bottom - REFUSAL - Bedrock - Volcanic			8.0			
														





HOLE # SJNU24-TP008

PROJECT: Juneau Cascade Point Ferry Terminal

Equipment Type: CAT 320E Excavator
Hole Type: Test Pit
Field Crew: ENCO Alaska

Total Depth: 3.0 ft
Date:
Geologist: P.Dzwonowski

[illegible]

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS TP.GPJ DATA TEMPLATE 2018.GDT 5/23/25



STATE OF ALASKA DOT&PF
Southcoast Region Materials
Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TP009

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

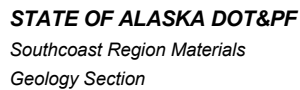
Station / Location: 36+85
Offset: 104.8 RT
Elevation: 66.6 ft

Equipment Type: CAT 320E Excavator
Hole Type: Test Pit
Field Crew: ENCO Alaska

Total Depth: 12.0 ft
Date:
Geologist: P.Dzwonowski

Depth (Feet)	Sample Data						USCS Classification Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type			Sample	Depth (ft.)				
										Time				
										Date				
										Symbol				
0							PT		Peat (PT) dark brown, spongy			0.0		
1							ML		SANDY SILT with Gravel (ML) gray, subrounded coarse gravels with cobbles and occasional boulder to 2ft.; abundant marine shells; unconsolidated			2.5		
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12						BOH 12	Notes: NO REFUSAL			12.0				





HOLE # SJNU24-TP010

PROJECT: Juneau Cascade Point Ferry Terminal

Geologist: *P.Dzwonowski*

th scraping at bottom uphill pit wall - REFUSAL - Bedrock - V



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Southcoast Region Materials
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LOG OF TEST HOLE

HOLE # SJNU24-TP011

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 37+51
Offset: 215.4 LT
Elevation: 62.1 ft

Equipment Type: CAT 320E Excavator
Hole Type: Test Pit
Field Crew: ENCO Alaska

Total Depth: 13.0 ft
Date:
Geologist: P.Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
0							PT		Peat (PT) dark brown, spongy			0.0			
1							GP-GM		POORLY-GRADED GRAVEL with Silt and Sand (GP-GM) gray, predominantly subrounded cobbles with subordinate silt and sand			3.0			
2															
3															
4															
5							SM		SILTY SAND with Gravel (SM) gray, with abundant subrounded cobbles and occasional boulder to 1ft. S1 Moisture=12%			5.0			
6			S1		GRAB										
7															
8															
9									sediment becomes saturated at 8ft.			8.0			
10															
11															
12									pit walls holding to 12ft then sloughing			12.0			
13							BOH 13		Notes: NO REFUSAL			13.0			
															





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LOG OF TEST HOLE

HOLE # SJNU24-TP012

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 24+07

Offset: 260.0 LT

Elevation: 56.1 ft

Equipment Type: CAT 320E Excavator

Hole Type: Test Pit

Field Crew: ENCO Alaska

Total Depth: 12.0 ft

Date:

Geologist: P.Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
0							PT		Peat (PT) dark brown, spongy			0.0			
1							GP-GM		POORLY-GRADED GRAVEL with Silt and Sand (GP-GM) brown, FeO staining			1.0			
2									S1 p200=6.8%, Sa=42.1%, Gr=51.1%, Moisture=12%						
3				S1		GRAB									
4															
5							SM		SILTY SAND (SM) gray			5.0			
6				S2		GRAB			S2 Moisture=17%						
7															
8									sediment becomes saturated; pit walls readily slough			8.0			
9															
10															
11															
12							BOH 12		Notes: NO REFUSAL			12.0			

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS TP.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☐ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☐ 340 lb hammer with 30 in. drop

Sheet Number 1 of 1



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Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TP013

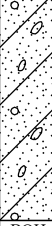
PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 36+76
Offset: 200.5 LT
Elevation: 72.1 ft

Equipment Type: CAT 320E Excavator
Hole Type: Test Pit
Field Crew: ENCO Alaska

Total Depth: 13.0 ft
Date:
Geologist: K.Hoover

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
0							PT		Peat (PT) dark brown, spongy			0.0			
1							GP		POORLY-GRADED GRAVEL with Sand (GP) gray, predominantly subrounded cobbles with subordinate silt and sand and gravel			5.0			
2									S1 p200=1.7%, Sa=44.9%, Gr=53.4%, Moisture=9%						
3															
4							SP-SM		POORLY-GRADED SAND with Silt and Gravel (SP-SM) light gray			9.0			
5									sediment becomes saturated and pit walls readily slough			10.0			
6															
7									Notes: NO REFUSAL			13.0			

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS TP.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☐ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☐ 340 lb hammer with 30 in. drop

Sheet Number 1 of 1



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Southcoast Region Materials
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LOG OF TEST HOLE

HOLE # SJNU24-TP014

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

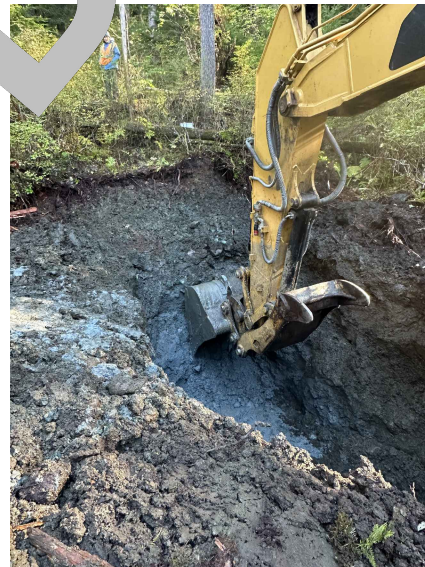
PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 25+15
Offset: 153.9 LT
Elevation: 76.7 ft

Equipment Type: CAT 320E Excavator
Hole Type: Test Pit
Field Crew: ENCO Alaska

Total Depth: 10.0 ft
Date:
Geologist: K.Hoover

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
0								PT		Peat (PT) dark brown, spongy			0.0		
1															
2															
3								SM		SILTY SAND with Gravel (SM) brown gray, coarse gravels and subrounded cobbles			3.0		
4															
5										sediment becomes wet			5.0		
6								SM		SILTY SAND with Gravel (SM) bluish gray, subrounded coarse gravel and occasional cobbles			6.0		
7				S1		GRAB									
8										S1 p200=12.2%, Sa=69.9%, Gr=17.8%, Moisture=18%					
9															
10								BOH 10		Notes: NO REFUSAL			10.0		





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LOG OF TEST HOLE

HOLE # SJNU24-TP015

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 26+87
Offset: 147.8 LT
Elevation: 89.5 ft

Equipment Type: CAT 320E Excavator
Hole Type: Test Pit
Field Crew: ENCO Alaska

Total Depth: 12.0 ft
Date:
Geologist: K.Hoover

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
0							PT		Peat (PT) dark brown, spongy			0.0			
1															
2															
3							SM		SILTY SAND with Gravel (SM) gray, abundant subrounded cobbles and occasional boulder to 3ft.			2.5			
4															
5															
6									sediment becomes wet beginning at 6ft.			5.5			
7							SM		SILTY SAND (SM) light gray, fine grained sand			6.0			
8															
9				S1		GRAB			S1 p200=15.6%, Sa=82.3%, Gr=2.1%, Moisture=22%						
10															
11															
12															
							BOH 12		Notes: NO REFUSAL			12.0			

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS TP.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☐ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☐ 340 lb hammer with 30 in. drop

Sheet Number 1 of 1



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Southcoast Region Materials
Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TP016

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 28+50

Offset: 181.0 LT

Elevation: 84.5 ft

Equipment Type: CAT 320E Excavator

Hole Type: Test Pit

Field Crew: ENCO Alaska

Total Depth: 12.0 ft

Date:

Geologist: K.Hoover

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL			
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)					
											Time					
											Date					
											Symbol					
0							PT		Peat (PT) dark brown, spongy			0.0				
1							SM		SILTY SAND with Gravel (SM) grayish green, abundant cobbles and occasional boulders to 3ft.; wet throughout; walls readily slough at depth			2.0				
2																
3																
4																
5																
6																
7																
8			S1		GRAB									S1 Moisture=20%		
9																
10																
11																
12													BOH 12	Notes: NO REFUSAL		

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS TP.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☐ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☐ 340 lb hammer with 30 in. drop

Sheet Number 1 of 1

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 36+03

Offset: 0.0

Elevation: 73.3 ft

Equipment Type: CAT 320E Excavator

Hole Type: *Test Pit*

Field Crew: *ENCO Alaska*

Total Depth: 7.0 ft

Date:

Geologist: *P.Dzwonowski*[illegible]



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Geology Section

LOG OF TEST HOLE

HOLE # SJNU24-TP018

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 34+01
Offset: 0.2 LT
Elevation: 88.6 ft

Equipment Type: CAT 320E Excavator
Hole Type: Test Pit
Field Crew: ENCO Alaska

Total Depth: 8.0 ft
Date:
Geologist: P.Dzwonowski

Depth (Feet)	Sample Data						USCS Classification Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type			Sample	Depth (ft.)				
										Time				
										Date				
										Symbol				
0							PT		Peat (PT) dark brown, spongy			0.0		
1														
2														
3							SP-SM		POORLY-GRADED SAND with Silt and Gravel (SP-SM) light brownish gray, coarse gravel and abundant subrounded cobbles			3.0		
4														
5							SM		GRAVELLY SILTY SAND (SM) light gray, becoming saturated; pit filled with water; pit walls readily collapse; pushed bucket teeth to 8' bgs			5.0		
6														
7														
8														
							BOH 8	Notes: NO REFUSAL					8.0	
														





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LOG OF TEST HOLE

HOLE # SJNU24-TP019

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 32+58
Offset: 71.4 LT
Elevation: 90.8 ft

Equipment Type: CAT 320E Excavator
Hole Type: Test Pit
Field Crew: ENCO Alaska

Total Depth: 7.5 ft
Date:
Geologist: P.Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data				
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)			
											Time			
											Date			
											Symbol			
SUBSURFACE MATERIAL														
0							PT		Peat (PT) dark brown, spongy				0.0	
1							SP		POORLY-GRADED SAND (SP) light brownish gray, coarse gravel and abundant subrounded cobbles to 8 inch				2.0	
2						S1		GRAB	S1 p200=2.6%, Sa=92.1%, Gr=5.4%, Moisture=19%					
3														
4							SP		GRAVELLY POORLY-GRADED SAND (SP) light gray, sediment saturated/soupy; pit walls readily collapse				3.5	
5						S2		GRAB	S2 Moisture=9%					
6														
7														
	</													





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LOG OF TEST HOLE

HOLE # SJNU24-TP020

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 31+83

Offset: 0.5 RT

Elevation: 100.6 ft

Equipment Type: CAT 320E Excavator

Hole Type: Test Pit

Field Crew: ENCO Alaska

Total Depth: 13.0 ft

Date:

Geologist: P.Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
0							PT		Peat (PT) dark brown, spongy			0.0			
1							SM		GRAVELLY SILTY SAND (SM) gray, abundant subrounded cobbles and granite boulders to 1.5ft.; indicative of glacial outwash deposits; saturated/soupy; walls readily slough; pushed bucket teeth to 13ft bgs			2.0			
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13							BOH 13	Notes: NO REFUSAL			13.0				



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LOG OF TEST HOLE

HOLE # SJNU24-TP021

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 29+80

Offset: 0.1 LT

Elevation: 109.4 ft

Equipment Type: CAT 320E Excavator

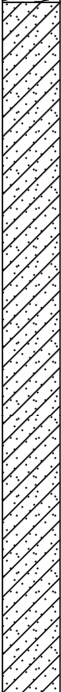
Hole Type: Test Pit

Field Crew: ENCO Alaska

Total Depth: 14.0 ft

Date:

Geologist: P.Dzwonowski

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
0								PT		Peat (PT) dark brown, spongy			0.0		
1								ML		SILT with Sand (ML) dark grayish brown light gray, coarse gravel and abundant cobbles			2.0		
2															
3															
4			SI		GRAB										
5										S1 Moisture=15%					
6										dry hole; pit walls holding firm			6.0		
7										near pit bottom digging firms; abundant cobbles and occasional boulder; marine shells; glacial diamict			12.0		
8															
9															
10															
11										Notes: NO REFUSAL			14.0		
12															
13															
14															
								BOH 14							

A USCS LOG OF TEST HOLE 232045 JNU CPFT UPLANDS TP.GPJ DATA TEMPLATE 2018.GDT 5/23/25

☐ CME Auto Hammer

☐ Cathead Rope Method

140 lb hammer with 30 in. drop

☐ 340 lb hammer with 30 in. drop

Sheet Number 1 of 1



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LOG OF TEST HOLE

HOLE # SJNU24-TP022

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 27+07

Offset: 216.4 RT

Elevation: 200.0 ft

Equipment Type: CAT 320E Excavator

Hole Type: Test Pit

Field Crew: ENCO Alaska

Total Depth: 5.0 ft

Date:

Geologist: K.Hoover

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
0								PT		Peat (PT) dark brown, spongy			0.0		
1															
2															
3								SM		SILTY SAND (SM) gray, moist; occasional subrounded cobbles			3.0		
4															
5								BOH 5		Notes: Bucket teeth scraping at bottom - REFUSAL - Bedrock - Volcanic			5.0		



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LOG OF TEST HOLE

HOLE # SJNU24-TP023

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 26+67
Offset: 228.3 RT
Elevation: 192.5 ft

Equipment Type: CAT 320E Excavator
Hole Type: Test Pit
Field Crew: ENCO Alaska

Total Depth: 9.0 ft
Date:
Geologist: K.Hoover

Depth (Feet)	Sample Data						USCS Classification Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type			Sample	Depth (ft.)				
										Time				
										Date				
										Symbol				
0							PT		Peat (PT) dark brown, spongy			0.0		
1							SM		GRAVELLY SILTY SAND (SM) gray, abundant subrounded cobbles and a 6ft granite boulder immediately below the organics			2.0		
2														
3														
4														
5														
6														
7														
8														
9														
							BOH 9		Notes: REFUSAL			9.0		



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LOG OF TEST HOLE

HOLE # SJNU24-TP024

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 22+70

Offset: 6.6 RT

Elevation: 137.2 ft

Equipment Type: CAT 320E Excavator

Hole Type: Test Pit

Field Crew: ENCO Alaska

Total Depth: 5.0 ft

Date:

Geologist: K.Hoover

Depth (Feet)	Sample Data						USCS Classification	Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL		
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type				Sample	Depth (ft.)				
											Time				
											Date				
											Symbol				
	0										PT				Peat (PT) dark brown, spongy
1															
2															
3							SM		SILTY SAND with Gravel (SM) gray, coarse gravel and occasional cobble			3.0			
4															
5															



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LOG OF TEST HOLE

HOLE # SJNU24-TP025

PROJECT NUMBER : HSHWY00015 (PND232045.05A)

PROJECT : Juneau Cascade Point Ferry Terminal

Station / Location: 20+97
Offset: 6.5 RT
Elevation: 146.5 ft

Equipment Type: CAT 320E Excavator
Hole Type: Test Pit
Field Crew: ENCO Alaska

Total Depth: 5.0 ft
Date:
Geologist: K.Hoover

Depth (Feet)	Sample Data						USCS Classification Frozen Zone	Soil Graphic	Ground Water Data			SUBSURFACE MATERIAL	
	Drill Method	Blow Count	N Value	Number	Recovery	Sample Type			Depth (ft.)				
									Time				
									Date				
									Symbol				
0							PT		Peat (PT) dark brown, spongy				0.0
1							SM		SILTY SAND with Gravel (SM) coarse gravel and occasional cobble intermixed with organics				1.0
2									S1 p200=36.1%, Sa=48.2%, Gr=15.8%, Moisture=15%				
3				SI		GRAB							
4													
5													
								BOH 5	Notes: Bucket teeth scraping at bottom - REFUSAL - Bedrock - Volcanic				5.0



Summary of Sample Characteristics

Client: AKDOT&PF
Project: Cascade Point Ferry Terminal
Project #: 232045



Borehole	Sample #	From	To	Sample Method	Liquid Limit (%)	Plastic Limit (%)	Gradation (%)			Max Particle Size (in)	Laboratory Classification*	Salinity (ppt)	Moisture (%)	Particle Shape	Angularity	Other Tests**
							Gravel	Sand	Fines*							
TH021	02	7	8.5	Sh						1/2	CL		19		SR	
TH021	03	10	11.5	Sh	29	20	4.3	16.1	79.6	1/2	CLs		23		SR	
TH021	04	15	16.5	Sh	29	20	5.7	8.6	85.7	1/2	CL		23		SR	
TH022	01	0	2	Sh						2	(GP-GM)s		9		SA	
TH022	02	2.5	4.5	Sh			39.0	50.6	10.4	1	g(SP-SM)		24		SR	
TH022	03	5	7	Sh						2	GWs		7		SR-SA	
TH022	04	7.5	9.5	Sh	22	18	12.7	31.4	55.9	1	s(CL-ML)		15		SR	
TH022	05	10	12	Sh						1.5	s(CL-ML)g		13		SR	
TH022	06	15	17	Sh						1.5	g(CL-ML)s		14		SR-SA	
TH023	01	0	2	Sh			70.0	24.8	5.2	2	(GW-GM)s		3		SA	
TH023	02	2.5	4.5	Sh						2	GP		4		SA	
TH023	03	5	7	Sh						1	GP		29		SA	
TH023	04	7.5	9.5	Sh						1	GP		9		SA	
TH023	05	10	11.5	Sh						2	GP-GM		3		SR-SA	
TH024	01	0	2	Sh						2	(GP-GM)s		2		SR-SA	
TH024	02	2.5	4.5	Sh			66.4	28.0	5.5	1	(GP-GM)s		2		SR-SA	
TH024	03	5	7	Sh						2	GP		65		SR-SA	
TH024	4A	7.5	8.5	Sh			0.0	94.3	5.7		SP-SM		36			
TH024	4B	8.5	9.5	Sh						1/2	SP		25		SR	
TH024	05	10	12	Sh			26.9	66.5	6.6	1.5	(SP-SM)g		16		SR-SA	
TH024	06	15	17	Sh			17.5	77.9	4.5	1	SWg		16		SR	
TH025	02	2.5	4.5	Sh						1.5	GP		80		SA	
TH025	3A	5	6	Sh						1.5	GMs		26		SR-SA	
TH025	3B	6	7	Sh			3.9	74.0	22.1	1/2	SM		19		SR	
TH025	04	7.5	9.5	Sh						1	SMg		15		SR	
TH025	05	10	12	Sh			24.4	62.1	13.4	1.5	SMg		15		SR	
TH025	6A	15	16	Sh						1	SMg		13		SR	
TH025	6B	16	17	Sh						1	gMLs		11		SR	
TH028	01	0	2	Sh			61.7	30.9	7.4	2	s(GP-GM)		4		SR-SA	

*Fines type and content estimated with ASTM D2488 when ASTM D422 or D4318 were not performed

**Other tests: DEN = Bulk Density, SPG = Specific Gravity, HYD = Hydrometer, CONS = Consolidation, UCS = Unconfined Compression Strength, TRIAX = Triaxial

Summary of Sample Characteristics

Client: AKDOT&PF
Project: Cascade Point Ferry Terminal
Project #: 232045



Borehole	Sample #	From	To	Sample Method	Liquid Limit (%)	Plastic Limit (%)	Gradation (%)			Max Particle Size (in)	Laboratory Classification*	Salinity (ppt)	Moisture (%)	Particle Shape	Angularity	Other Tests**
							Gravel	Sand	Fines*							
TH028	02	2.5	3	Sh						1.5	GMs		25		SR-SA	
TH032	1A	0	1	Sh			25.7	59.4	14.9	1	SMg		36		SR-SA	
TH032	1B	1	2	Sh						2	GPs		5		SR-SA	
TH032	02	2.5	4	Sh							GP					
TH036	01	0	2	Sh			80.9	15.5	3.6	2	GPs		4		SA	
TH036	02	2.5	4.5	Sh						2	(GP-GM)s		8		SR	
TH036	03	5	7	Sh							PT		82			
TP011	01	5	7	GR						1.5	(GP-GM)s		12		SR-SA	
TP012	01	2	4	GR			51.1	42.1	6.8	1.5	s(GP-GM)		12		SR-SA	
TP012	02	5.5	7.5	GR						1/2	SM		17		SR	
TP013	01	7	8	GR			53.4	44.9	1.7	2	sGP		9		SR	
TP014	01	7	8	GR			17.8	69.9	12.2	1/2	SMg		18		SR-SA	
TP015	01	8	9	GR			2.1	82.3	15.6		SM		22			
TP016	01	7	8	GR						1.5	gSM		20		SR-SA	
TP019	01	2	3.5	GR			5.4	92.1	2.6	1/2	SP		19		SR-SA	
TP019	02	4	6	GR						1.5	gSP		9		SR	
TP021	01	3	5	GR						1/2	MLs		15		SR-SA	
TP025	01	2	4	GR			15.8	48.2	36.1	1	SMg		15		SR	

47 samples



December 3, 2024

Paul Dzwonowski
PND Engineers, Inc.
9360 Glacier Hwy, Suite 100
Juneau, AK 99801

Sent Via Email

Re: Cascade Point Ferry Terminal Rock Quality Testing Results

Mr. Dzwonowski,

On November 1, 2024, RESPEC received five (5), 5-gallon bucket of 4" minus shot rock borrow. The source of the material was the Cascade Point Quarry in Juneau, AK and the selected samples were taken by Paul Dzwonowski on October 28, 2024. The following table comprises a summary of the laboratory testing results performed by RESPEC:

4" Minus Shot Rock Borrow

Requested Test	Test Method	Test Results
L.A. Wear, %	AASHTO T 96	12%
Degradation of Aggregates	ATM 313	71
Sodium Sulfate Soundness - Coarse	AASHTO T 104	0.1%
Sodium Sulfate Soundness - Fine		8%
Specific Gravity of Coarse Aggregate	AASHTO T 85	Bulk Specific Gravity = 2.931
		Bulk SSD Specific Gravity = 2.940
		Apparent Specific Gravity = 2.957
		Absorption = 0.230%

If you have any questions regarding the test procedure or the results, please do not hesitate to call.
Sincerely,

RESPEC

Colin Dukes

Materials Laboratory Manager
ACI # 02206149